

ABSTRACT

[Abstract]

[Object] Various electric wave absorbers for the GHz band have been developed. However, parameters for obtaining the optimal electric wave absorption characteristic are only the shape and the content of a dielectric material or a conductive material, and the degree of freedom of the parameters has been small. Furthermore, in a recent wireless LAN, electric wave absorbers that can be used for absorbing potentially dangerous electric waves in a plurality of bands, for example, in two frequency bands of 2.45 GHz band and 5.2 GHz band, have also been desired.

[Solving Means] In a woody electric wave absorber including a laminated magnetic woody material prepared by bonding facing plates composed of natural wood or a processed woody material with a magnetic layer composed of an adhesive containing a ferrite powder therebetween under pressure, the magnetic layer contains a nonmagnetic stainless steel powder in an amount in the range of 20 to 80 volume percent relative to the ferrite powder, the total volume content of the ferrite powder and the nonmagnetic stainless steel powder in the magnetic layer is in the range of 10% to 40%, the thickness of the magnetic layer is in the range of 0.5 to 5.0 mm, and the woody electric wave absorber has an electric wave absorption characteristic in which the center

frequency of the electric waves absorbed lies in the range of 1 to 8 GHz and the amount of electric wave absorption is 10 dB or more in a 2.45 GHz frequency band or a 5.2 GHz frequency band.